

WHAT IS CLAIMED IS:

1. A shock-absorbing structure installed in an pneumatic tool and adapted to absorb shocks from the impact unit of the pneumatic tool, the shock-absorbing structure comprising:
 - a housing, said housing comprising a mounting body, a first fitting hole and a second fitting hole formed in said mounting body, a receiving hole connected between said first fitting hole and said second fitting hole, a first locating portion disposed at a rear side of said first fitting hole remote from said receiving hole, and a second locating portion disposed in said second fitting hole; and
 - a shock-absorbing socket mounted on the impact unit of said pneumatic tool, said shock-absorbing socket comprising a socket body axially movably mounted in said receiving hole inside said housing, a first coupling portion spaced from a rear side of said socket body and connected to the first locating portion of said housing, a second coupling portion spaced from a front side of said socket body and connected to the second locating portion of said housing, a first spring coil connected between said first coupling portion and said socket body, and a second spring coil connected between said second coupling portion and said socket body.
- 20 2. The shock-absorbing structure as claimed in claim 1, wherein the first coupling portion of said shock-absorbing socket is fastened to the first locating portion of said housing by a thread joint.
- 25 3. The shock-absorbing structure as claimed in claim 1, wherein the second coupling portion of said shock-absorbing socket is fastened to the second locating

portion of said housing by a thread joint.

4. The shock-absorbing structure as claimed in claim 1, further comprising a front cap, said front cap comprising a cap body, a mounting portion extended from said 5 cap body and fastened to said housing, and a through hole axially extended through said cap body for the passing of the impact unit of said pneumatic tool.

5. The shock-absorbing structure as claimed in claim 4, wherein said front cap has a stop portion disposed at one side of said cap body and stopped at the second 10 coupling portion of said shock-absorbing socket against said second spring coil.

6. The shock-absorbing structure as claimed in claim 5, wherein the second coupling portion of said shock-absorbing socket is a flange; said housing has a stop edge adapted to support the flange of said shock-absorbing socket.

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7. The shock-absorbing structure as claimed in claim 1, wherein said first spring coil and said second spring coil of said shock-absorbing socket are respectively formed integral with said socket body.

20 8. The shock-absorbing structure as claimed in claim 1, wherein said first spring coil and said second spring coil of said shock-absorbing socket are independent members respectively fastened to said socket body.

25 9. The shock-absorbing structure as claimed in claim 1, further comprising at least one seal ring mounted on the periphery of said socket body of said

shock-absorbing socket and disposed in contact with said housing within said receiving hole.

10. The shock-absorbing structure as claimed in claim 1, wherein said
5 sock-absorbing socket has thread means for fastening to the impact unit of said
pneumatic tool.

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